



1
00:00:39,370 --> 00:01:09,429
t-minus one minute

2
00:01:09,439 --> 00:01:22,520
t-minus 30 seconds

3
00:01:28,550 --> 00:01:25,750
we are go for launch

4
00:01:41,200 --> 00:01:28,560
[Music]

5
00:01:41,210 --> 00:02:25,140
inside the Vehicle Assembly Building

6
00:02:29,490 --> 00:02:27,360
we are coming to you live from NASA's

7
00:02:30,449 --> 00:02:29,500
Kennedy Space Center welcome to the

8
00:02:33,630 --> 00:02:30,459
first ever

9
00:02:35,910 --> 00:02:33,640
NASA's virtual social I'm Joshua Santoro

10
00:02:37,770 --> 00:02:35,920
with NASA communication and I'm so happy

11
00:02:39,809 --> 00:02:37,780
that you're with us today and I'm joined

12
00:02:40,920 --> 00:02:39,819
right now by my good friend Yves lamothe

13
00:02:42,869 --> 00:02:40,930

Yves thanks for being here man

14

00:02:44,539 --> 00:02:42,879

absolutely it is such a pleasure once

15

00:02:46,920 --> 00:02:44,549

again I'm Yves lamothe and I am a

16

00:02:49,890 --> 00:02:46,930

communications project manager in the

17

00:02:53,039 --> 00:02:49,900

command control and communication office

18

00:02:55,140 --> 00:02:53,049

of exploration ground systems so but

19

00:02:57,330 --> 00:02:55,150

we're super super excited to be here to

20

00:03:00,300 --> 00:02:57,340

bring this to you as la you know alive

21

00:03:03,030 --> 00:03:00,310

virtually live so you can experience

22

00:03:04,920 --> 00:03:03,040

what's going on with us processing for

23

00:03:09,000 --> 00:03:04,930

this demo to launch it's it's a historic

24

00:03:10,979 --> 00:03:09,010

moment right we are in omits launching

25

00:03:13,830 --> 00:03:10,989

American astronauts on American soil

26

00:03:15,750 --> 00:03:13,840

something that we haven't done for 11

27

00:03:18,119 --> 00:03:15,760

years almost nine nine years most nine

28

00:03:19,890 --> 00:03:18,129

years yeah 2011 it's been I'm sorry yeah

29

00:03:22,559 --> 00:03:19,900

it was 2011 so it's been quite a while

30

00:03:24,420 --> 00:03:22,569

but we're so excited about being able to

31

00:03:27,270 --> 00:03:24,430

do that again because that's opening

32

00:03:29,849 --> 00:03:27,280

that door into deep space exploration as

33

00:03:32,460 --> 00:03:29,859

America's you know we we are the leaders

34

00:03:35,280 --> 00:03:32,470

in space so this is an opportunity for

35

00:03:37,680 --> 00:03:35,290

us to open those doors back up and lead

36

00:03:39,000 --> 00:03:37,690

the path for deep space exploration yeah

37

00:03:40,379 --> 00:03:39,010

want to encourage folks out there to

38

00:03:42,839 --> 00:03:40,389

make sure you ask questions live online

39

00:03:44,940 --> 00:03:42,849

right now we are taking questions and

40

00:03:46,680 --> 00:03:44,950

we'll try and handle those as we go but

41

00:03:48,599 --> 00:03:46,690

before we go too far I want to take just

42

00:03:50,940 --> 00:03:48,609

a moment and pause and remember that

43

00:03:52,170 --> 00:03:50,950

here America this is Memorial Day so

44

00:03:54,030 --> 00:03:52,180

it's special thanks to the men and women

45

00:03:55,110 --> 00:03:54,040

who serve in our military and especially

46

00:03:57,150 --> 00:03:55,120

those that have paid the ultimate price

47

00:04:00,330 --> 00:03:57,160

for our freedom and to make this great

48

00:04:02,670 --> 00:04:00,340

country what it is today absolutely and

49

00:04:05,069 --> 00:04:02,680

you know I myself has served in the

50

00:04:06,659 --> 00:04:05,079

Marine Corps and it is yeah thanks heaps

51
00:04:07,949 --> 00:04:06,669
appreciate your service man you bet

52
00:04:08,640 --> 00:04:07,959
absolutely and I would do it all over

53
00:04:10,830 --> 00:04:08,650
again

54
00:04:12,809 --> 00:04:10,840
it's opportunities like this it's people

55
00:04:14,159 --> 00:04:12,819
you know who who dedicated their lives

56
00:04:15,900 --> 00:04:14,169
to the middle you know being in the

57
00:04:18,240 --> 00:04:15,910
military and fighting for our freedom

58
00:04:21,330 --> 00:04:18,250
which allows us to be able to do what

59
00:04:23,490 --> 00:04:21,340
we're doing right now so it's a it's an

60
00:04:25,020 --> 00:04:23,500
honor for me to have served and and

61
00:04:26,850 --> 00:04:25,030
thank you to all my brothers and sisters

62
00:04:28,620 --> 00:04:26,860
that are out there you know continuing

63
00:04:30,180 --> 00:04:28,630

to fight for our freedom and for us to

64

00:04:32,100 --> 00:04:30,190

be the greatest nation that that is out

65

00:04:33,959 --> 00:04:32,110

there on this mother earth yeah and one

66

00:04:36,390 --> 00:04:33,969

also make sure that we point to what's

67

00:04:38,460 --> 00:04:36,400

over our shoulders today very large this

68

00:04:41,640 --> 00:04:38,470

is not a backdrop this is not a

69

00:04:44,430 --> 00:04:41,650

picture that is space shuttle Atlantis

70

00:04:46,290 --> 00:04:44,440

so this is the last vehicle that flew

71

00:04:48,780 --> 00:04:46,300

Americans into space from American soil

72

00:04:50,130 --> 00:04:48,790

almost nine years ago so super excited

73

00:04:52,110 --> 00:04:50,140

to have the Visitor Complex here at the

74

00:04:53,820 --> 00:04:52,120

Kennedy Space Center hosting us thanks

75

00:04:55,260 --> 00:04:53,830

to them for this opportunity when a

76
00:04:57,780 --> 00:04:55,270
preview are scheduled over the next two

77
00:04:59,340 --> 00:04:57,790
days with you right now today a lot of

78
00:05:01,560 --> 00:04:59,350
great shows here I want to highlight

79
00:05:04,110 --> 00:05:01,570
specifically our four o'clock show these

80
00:05:05,610 --> 00:05:04,120
times are all in Eastern in America and

81
00:05:08,070 --> 00:05:05,620
that last show of the day will feature

82
00:05:10,920 --> 00:05:08,080
two astronauts and an NFL quarterback a

83
00:05:12,270 --> 00:05:10,930
cool Q&A time with them Q&A being a big

84
00:05:14,190 --> 00:05:12,280
feature of all of our programs this week

85
00:05:17,010 --> 00:05:14,200
tomorrow starting off the day with a

86
00:05:19,380 --> 00:05:17,020
really big show NASA Administrator Jim

87
00:05:21,630 --> 00:05:19,390
brightenstein and KSC Center Director

88
00:05:24,180 --> 00:05:21,640

Bob Cabana will be joining us and then

89

00:05:25,680 --> 00:05:24,190

later in the day at 2 o'clock deputy

90

00:05:28,290 --> 00:05:25,690

administrator Jim more hard will join us

91

00:05:30,240 --> 00:05:28,300

as well so lots of cool people to get to

92

00:05:32,010 --> 00:05:30,250

talk to and ask questions of and then

93

00:05:33,840 --> 00:05:32,020

the morning of launch outline is zero

94

00:05:36,390 --> 00:05:33,850

launch zero days to launch that's kind

95

00:05:38,220 --> 00:05:36,400

of a vernacular we use here a couple

96

00:05:40,350 --> 00:05:38,230

shows in the morning before we kind of

97

00:05:42,690 --> 00:05:40,360

lead into and handoff to the main launch

98

00:05:44,400 --> 00:05:42,700

broadcast which will kick off at 12:15

99

00:05:46,920 --> 00:05:44,410

and we will get to see everything from

100

00:05:48,840 --> 00:05:46,930

the crew suit up to their walk out to

101
00:05:50,280 --> 00:05:48,850
them loading up into the rocket and then

102
00:05:52,650 --> 00:05:50,290
ultimately blasting off to the

103
00:05:55,500 --> 00:05:52,660
International Space Station so a very

104
00:05:57,480 --> 00:05:55,510
very busy day ahead of us a couple days

105
00:05:58,500 --> 00:05:57,490
ahead of us we are so excited to be here

106
00:06:00,750 --> 00:05:58,510
finally we've been preparing for weeks

107
00:06:02,460 --> 00:06:00,760
now for this and we're going to jump in

108
00:06:04,530 --> 00:06:02,470
right now the Vehicle Assembly Building

109
00:06:12,490 --> 00:06:04,540
we're going to take you inside this icon

110
00:06:16,640 --> 00:06:14,780
every rocket that is taken if you end

111
00:06:19,040 --> 00:06:16,650
beyond low-earth orbit into the moon has

112
00:06:20,330 --> 00:06:19,050
been processed and stacked inside right

113
00:06:24,500 --> 00:06:20,340

now engineers are inside preparing

114

00:06:56,490 --> 00:06:24,510

NASA's Artemis let's go take a look

115

00:07:02,610 --> 00:06:58,560

maybe process and then move back inside

116

00:07:04,350 --> 00:07:02,620

the sack and assembled inside one of the

117

00:07:06,840 --> 00:07:04,360

high base you can see the crane system

118

00:07:08,910 --> 00:07:06,850

above me where engineers have lift the

119

00:07:26,860 --> 00:07:08,920

parts of the shuttle and move them over

120

00:07:33,959 --> 00:07:29,180

right behind you you'll see one of the

121

00:07:38,759 --> 00:07:36,569

standing right behind me is one of the

122

00:07:41,100 --> 00:07:38,769

low bass and those orange platforms were

123

00:07:43,589 --> 00:07:41,110

used for final checkouts of vehicles or

124

00:07:45,119 --> 00:07:43,599

the Apollo program so when they would

125

00:07:47,129 --> 00:07:45,129

bring pieces into the Vehicle Assembly

126

00:07:48,779 --> 00:07:47,139

Building they would stack them inside

127

00:07:50,639 --> 00:07:48,789

this low bay make sure everything was

128

00:07:52,139 --> 00:07:50,649

good to go before stacking it with the

129

00:07:54,029 --> 00:07:52,149

rest of the rocket inside one of the

130

00:07:56,699 --> 00:07:54,039

high Bay's so now we're gonna look at

131

00:07:58,589 --> 00:07:56,709

this wall over here and you'll be able

132

00:08:00,029 --> 00:07:58,599

to see some of the crane operations that

133

00:08:02,339 --> 00:08:00,039

took place in this building during the

134

00:08:04,350 --> 00:08:02,349

space shuttle program now operating one

135

00:08:06,269 --> 00:08:04,360

of those crazes a very specialized job

136

00:08:07,919 --> 00:08:06,279

as you can imagine space hardware it's

137

00:08:08,450 --> 00:08:07,929

very delicate and you have to make sure

138

00:08:16,370 --> 00:08:08,460

your

139

00:08:16,380 --> 00:08:24,330

think crazy

140

00:08:29,260 --> 00:08:27,129

and so we keep going down the transfer

141

00:08:30,610 --> 00:08:29,270

aisle you'll see this wall filled with

142

00:08:32,620 --> 00:08:30,620

signatures from the space shuttle

143

00:08:35,260 --> 00:08:32,630

program so at the end of the program in

144

00:08:37,420 --> 00:08:35,270

2011 every employee on center who had

145

00:08:39,010 --> 00:08:37,430

the opportunity to support it in any way

146

00:08:43,100 --> 00:08:39,020

shape or form can come and sign their

147

00:12:04,910 --> 00:08:54,340

[Music]

148

00:12:04,920 --> 00:12:11,740

so right there

149

00:12:11,750 --> 00:12:34,350

Blandon

150

00:12:37,290 --> 00:12:35,910

now looking at the mobile launcher you

151
00:12:39,120 --> 00:12:37,300
may be able to see some of the

152
00:12:40,920 --> 00:12:39,130
umbilicals that are on the tower so

153
00:12:43,230 --> 00:12:40,930
these structures actually attach

154
00:12:45,540 --> 00:12:43,240
themselves to the rocket and within the

155
00:12:46,110 --> 00:12:45,550
hours and even sometimes seconds of

156
00:12:48,210 --> 00:12:46,120
liftoff

157
00:12:51,240 --> 00:12:48,220
these are Billikens retracts so the SLS

158
00:12:53,790 --> 00:12:51,250
can lift off one of the most notable of

159
00:12:55,560 --> 00:12:53,800
the umbilicals is the crew access arm so

160
00:12:58,170 --> 00:12:55,570
before flight astronauts will walk

161
00:13:00,360 --> 00:12:58,180
across that cat walking into the white

162
00:13:02,730 --> 00:13:00,370
room where the closeout crew will do the

163
00:13:04,560 --> 00:13:02,740

final suit up of preparations before

164

00:14:04,820 --> 00:13:04,570

they strap the astronauts into the Orion

165

00:14:09,300 --> 00:14:07,380

all right I hope you enjoyed that that

166

00:14:11,250 --> 00:14:09,310

inside look at the VAB we could probably

167

00:14:13,140 --> 00:14:11,260

spend hours showing you around there and

168

00:14:15,269 --> 00:14:13,150

hopefully in a future NASA social you'll

169

00:14:16,320 --> 00:14:15,279

get to come enjoy that with us and Yves

170

00:14:18,060 --> 00:14:16,330

I think we'll get there share some more

171

00:14:19,769 --> 00:14:18,070

about what he does because it involves a

172

00:14:20,880 --> 00:14:19,779

lot of what we just saw and rocket

173

00:14:22,350 --> 00:14:20,890

launching and mobile launchers and

174

00:14:24,570 --> 00:14:22,360

things but right now I want introduce

175

00:14:26,100 --> 00:14:24,580

our special guest mr. Greg Hale Greg

176

00:14:27,390 --> 00:14:26,110

thanks for joining us thank you

177

00:14:29,640 --> 00:14:27,400

it's privilege to be here thank you very

178

00:14:31,860 --> 00:14:29,650

much yeah so those who have been on NASA

179

00:14:33,810 --> 00:14:31,870

socials in the past will recognize Greg

180

00:14:35,640 --> 00:14:33,820

I think you've made just about everyone

181

00:14:38,310 --> 00:14:35,650

so far I think probably more so than any

182

00:14:39,960 --> 00:14:38,320

of us working here you you've been on

183

00:14:41,790 --> 00:14:39,970

our NASA socials it's only been about

184

00:14:43,320 --> 00:14:41,800

three that I haven't done since it first

185

00:14:45,240 --> 00:14:43,330

started okay and we've been doing it for

186

00:14:47,370 --> 00:14:45,250

probably a decade or more now very much

187

00:14:49,230 --> 00:14:47,380

yes very good so Greg tell us a little

188

00:14:51,210 --> 00:14:49,240

bit about yourself obviously we just saw

189

00:14:52,410 --> 00:14:51,220

the lower third day you're retired but

190

00:14:54,269 --> 00:14:52,420

continue to come back because you love

191

00:14:56,040 --> 00:14:54,279

to tell the story so what did you do

192

00:14:58,800 --> 00:14:56,050

here for us and and what's got you

193

00:15:00,540 --> 00:14:58,810

excited for this mission I was I worked

194

00:15:03,090 --> 00:15:00,550

out here for about 25 years eight eight

195

00:15:05,120 --> 00:15:03,100

years my career was spent inside the VV

196

00:15:08,269 --> 00:15:05,130

working we were the Quality Assurance

197

00:15:10,579 --> 00:15:08,279

specialists that did overseeing all the

198

00:15:13,650 --> 00:15:10,589

contractor work the contractor did about

199

00:15:15,750 --> 00:15:13,660

99 percent of the work that we did that

200

00:15:18,150 --> 00:15:15,760

was done out here we were there to make

201

00:15:19,890 --> 00:15:18,160

sure that it was done properly and for

202

00:15:22,170 --> 00:15:19,900

the safety of the crew and the vehicle

203

00:15:24,120 --> 00:15:22,180

and everything so that was that was our

204

00:15:27,960 --> 00:15:24,130

job we were there my department was out

205

00:15:30,630 --> 00:15:27,970

here 24/7 for 30 years somebody's in my

206

00:15:34,769 --> 00:15:30,640

department was here every day every day

207

00:15:36,180 --> 00:15:34,779

every hour of the year 30 years yeah and

208

00:15:37,710 --> 00:15:36,190

what's got you excited for this

209

00:15:38,430 --> 00:15:37,720

particular mission Greg coming up here

210

00:15:41,730 --> 00:15:38,440

in just two days

211

00:15:44,820 --> 00:15:41,740

we're flying people from here back the

212

00:15:46,320 --> 00:15:44,830

station it's time we do we need to get

213

00:15:48,950 --> 00:15:46,330

our people back to flying in our

214

00:15:50,660 --> 00:15:48,960

vehicles rather than sending overseas

215

00:15:52,190 --> 00:15:50,670

that's what he excites me I would care

216

00:15:54,770 --> 00:15:52,200

how to get him up there what rocket they

217

00:16:01,010 --> 00:15:54,780

use factious bring them home bring them

218

00:16:02,390 --> 00:16:01,020

up here let's fly them up there to kind

219

00:16:05,000 --> 00:16:02,400

of beyond what you just mentioned with

220

00:16:06,710 --> 00:16:05,010

the quality assurance aspect of being

221

00:16:08,750 --> 00:16:06,720

actively engaged every hour of every day

222

00:16:10,720 --> 00:16:08,760

that's really different than how we're

223

00:16:13,490 --> 00:16:10,730

operating with this particular mission

224

00:16:15,800 --> 00:16:13,500

right now we have a partnership a

225

00:16:17,810 --> 00:16:15,810

collaboration with Boeing and SpaceX as

226

00:16:19,280 --> 00:16:17,820

the commercial for program where they're

227

00:16:22,880 --> 00:16:19,290

the ones that own that hardware but with

228

00:16:23,960 --> 00:16:22,890

shuttle we own that really right you

229

00:16:26,710 --> 00:16:23,970

talk more about kind of that that

230

00:16:29,840 --> 00:16:26,720

relationship of how the shuttle happened

231

00:16:32,390 --> 00:16:29,850

that was a different whole different way

232

00:16:34,610 --> 00:16:32,400

we we we are we owned vehicle rather

233

00:16:36,350 --> 00:16:34,620

than the company's own it themselves and

234

00:16:38,510 --> 00:16:36,360

everything so we had a we had to have a

235

00:16:41,720 --> 00:16:38,520

little bit more inside of what was going

236

00:16:44,290 --> 00:16:41,730

on everything that was that was

237

00:16:46,640 --> 00:16:44,300

basically what was going on there

238

00:16:48,830 --> 00:16:46,650

remains you see how far we go right now

239

00:16:50,870 --> 00:16:48,840

now NASA I know understand have stepped

240

00:16:53,660 --> 00:16:50,880

back quite a ways but they still there

241

00:16:56,090 --> 00:16:53,670

is some oversight of what's going on

242

00:16:56,990 --> 00:16:56,100

with with the vehicles out there and

243

00:16:59,090 --> 00:16:57,000

it's a safety thing

244

00:17:00,920 --> 00:16:59,100

there's no matter how many times you

245

00:17:02,060 --> 00:17:00,930

look at one piece of equipment there's

246

00:17:04,160 --> 00:17:02,070

always something that's gonna slide

247

00:17:06,439 --> 00:17:04,170

slide passages so the more eyes you got

248

00:17:09,530 --> 00:17:06,449

on to better chance you're going to have

249

00:17:11,210 --> 00:17:09,540

a successful flight sure okay so what

250

00:17:13,340 --> 00:17:11,220

we're gonna do now Greg is you know we

251
00:17:14,750 --> 00:17:13,350
have in our audience on watching

252
00:17:16,340 --> 00:17:14,760
everything we have going on we have a

253
00:17:22,130 --> 00:17:16,350
few questions for you from I'm sure my

254
00:17:23,630 --> 00:17:22,140
page will be one of the questions is and

255
00:17:26,360 --> 00:17:23,640
this one might be a little hard to

256
00:17:28,700 --> 00:17:26,370
answer because you you probably have so

257
00:17:30,200 --> 00:17:28,710
many of these but the question is what

258
00:17:31,970 --> 00:17:30,210
is your fondest memory of the space

259
00:17:35,540 --> 00:17:31,980
shuttle program and this one is coming

260
00:17:36,860 --> 00:17:35,550
from Raj Luthra asking us from the

261
00:17:38,900 --> 00:17:36,870
Kennedy Space Center what is your

262
00:17:40,430 --> 00:17:38,910
fondest memory of this one before you

263
00:17:41,570 --> 00:17:40,440

answer sorry we're getting annoyed weird

264

00:17:43,940 --> 00:17:41,580

that there's a lot of noise happening

265

00:17:46,100 --> 00:17:43,950

it's raining here now so a generally

266

00:17:47,330 --> 00:17:46,110

sunshine state we've been told that if

267

00:17:48,560 --> 00:17:47,340

the audio is tough to hear a little bit

268

00:17:50,330 --> 00:17:48,570

so if you just lean in a little bit okay

269

00:17:52,400 --> 00:17:50,340

but fondest memory of the shuttle

270

00:17:55,910 --> 00:17:52,410

program fondest Chevrolet shelf memory

271

00:17:58,070 --> 00:17:55,920

is is it was every flight was was fond

272

00:18:00,390 --> 00:17:58,080

it was putting in the astronauts on

273

00:18:02,610 --> 00:18:00,400

board with experiments and everything

274

00:18:04,140 --> 00:18:02,620

and taking them back off and watching

275

00:18:05,850 --> 00:18:04,150

the astronauts come out with a smile on

276

00:18:08,450 --> 00:18:05,860

her face like yeah we did it

277

00:18:11,820 --> 00:18:08,460

and I wish I could've flown too but they

278

00:18:13,740 --> 00:18:11,830

watch I was asking can I fly one time it

279

00:18:15,450 --> 00:18:13,750

just didn't happen so that was that was

280

00:18:17,549 --> 00:18:15,460

probably my fondest memories the the

281

00:18:20,130 --> 00:18:17,559

ones that I'll throw this in here the

282

00:18:22,770 --> 00:18:20,140

ones that I really didn't like was the

283

00:18:24,990 --> 00:18:22,780

day we lost Columbia and I was on the

284

00:18:27,930 --> 00:18:25,000

runway the last day this thing behind us

285

00:18:30,740 --> 00:18:27,940

flew there was a dry out there including

286

00:18:33,540 --> 00:18:30,750

mine it was a sad day but it was

287

00:18:35,930 --> 00:18:33,550

fulfilling that what we did we had

288

00:18:41,190 --> 00:18:35,940

accomplished 30 years of manned flight

289

00:18:42,540 --> 00:18:41,200

with minimal loss of life now I do want

290

00:18:45,180 --> 00:18:42,550

to take a moment you know

291

00:18:46,590 --> 00:18:45,190

while today is Memorial Day and Josh did

292

00:18:48,270 --> 00:18:46,600

mention about in the beginning I also

293

00:18:50,100 --> 00:18:48,280

want to thank you all so I'm Greg for

294

00:18:52,830 --> 00:18:50,110

your service I thank you sir anywhere in

295

00:18:54,630 --> 00:18:52,840

the in the army and yes you even served

296

00:18:56,610 --> 00:18:54,640

in Vietnam so thank you so much for your

297

00:18:58,200 --> 00:18:56,620

service and they give allowing us to be

298

00:18:59,790 --> 00:18:58,210

able to do what we're doing right here

299

00:19:01,830 --> 00:18:59,800

right now I want to ask you another

300

00:19:04,110 --> 00:19:01,840

question I'm from from the audience here

301

00:19:08,070 --> 00:19:04,120

is what advice would you have for

302

00:19:13,880 --> 00:19:08,080

someone who wants to work at NASA Wow

303

00:19:16,710 --> 00:19:13,890

good school step way go school I'd just

304

00:19:18,390 --> 00:19:16,720

they've got a the program word you can

305

00:19:21,260 --> 00:19:18,400

come out here and work as a co-op or I

306

00:19:25,260 --> 00:19:21,270

think it's called something that's why I

307

00:19:27,030 --> 00:19:25,270

am now let's go up before during my

308

00:19:28,090 --> 00:19:27,040

career time we did have quite a few

309

00:19:31,480 --> 00:19:28,100

pathway people

310

00:19:32,740 --> 00:19:31,490

here come out here and didn't apply for

311

00:19:34,120 --> 00:19:32,750

the job you know and don't take no for

312

00:19:36,039 --> 00:19:34,130

an answer if you want to come out here

313

00:19:37,720 --> 00:19:36,049

and work for NASA just keep applying for

314

00:19:39,430 --> 00:19:37,730

it and that and NASA's not only here at

315

00:19:41,409 --> 00:19:39,440

Kennedy Space Center's other centers out

316

00:19:43,870 --> 00:19:41,419

there that you go to work at depends on

317

00:19:45,880 --> 00:19:43,880

what you want to do you know but a lot

318

00:19:47,620 --> 00:19:45,890

of lot of math a lot of sciences is

319

00:19:50,380 --> 00:19:47,630

there the classes that I would highly

320

00:19:52,450 --> 00:19:50,390

suggest that you take which would help

321

00:19:55,330 --> 00:19:52,460

you to get into the pathways program and

322

00:19:57,070 --> 00:19:55,340

everything and you know it isn't hurt to

323

00:19:59,409 --> 00:19:57,080

have somebody that you know at NASA that

324

00:20:01,390 --> 00:19:59,419

Wolf's go hey I think this person will

325

00:20:03,820 --> 00:20:01,400

be a very good person to come come go do

326

00:20:07,539 --> 00:20:03,830

it so and when you get here just apply

327

00:20:10,779 --> 00:20:07,549

yourself I'm gonna throw another another

328

00:20:15,870 --> 00:20:10,789

tough question for you here is you know

329

00:20:19,180 --> 00:20:15,880

what does this launch mean to you Wow

330

00:20:21,640 --> 00:20:19,190

how much static they do it just we're

331

00:20:23,649 --> 00:20:21,650

back to flying again I mean it's nice to

332

00:20:26,649 --> 00:20:23,659

see the Rockets go up with with payloads

333

00:20:29,289 --> 00:20:26,659

that they're not man but this is this is

334

00:20:31,180 --> 00:20:29,299

a man flight in this this is we're

335

00:20:34,690 --> 00:20:31,190

getting back to what NASA was designed

336

00:20:36,279 --> 00:20:34,700

to do was fly man to outer space and to

337

00:20:39,490 --> 00:20:36,289

other planets and stuff that we need to

338

00:20:41,409 --> 00:20:39,500

do we want to go and I'm just you know I

339

00:20:44,919 --> 00:20:41,419

can't wait to get back to a full-time

340

00:20:46,390 --> 00:20:44,929

schedule of flying like this so that

341

00:20:57,430 --> 00:20:46,400

does that mean you intend to come back

342

00:20:58,690 --> 00:20:57,440

to work since you're retired or love to

343

00:21:00,580 --> 00:20:58,700

come back

344

00:21:03,310 --> 00:21:00,590

she's nixed that right there but no she

345

00:21:06,010 --> 00:21:03,320

has given me a kitchen pass to do the

346

00:21:10,230 --> 00:21:06,020

social media so I will stick to that and

347

00:21:12,190 --> 00:21:10,240

I do like my supervisors over there

348

00:21:14,320 --> 00:21:12,200

joining us we'll be rotating through our

349

00:21:16,539 --> 00:21:14,330

hosting duties this week so we'll get to

350

00:21:18,190 --> 00:21:16,549

see some of them on later so Greg

351
00:21:19,870 --> 00:21:18,200
thinking about crew obviously that's the

352
00:21:21,460 --> 00:21:19,880
big highlight of this particular mission

353
00:21:22,750 --> 00:21:21,470
and you mentioned working with crews

354
00:21:24,549 --> 00:21:22,760
back with a shuttle program what's that

355
00:21:26,529 --> 00:21:24,559
like to get to interact with and work

356
00:21:28,299 --> 00:21:26,539
with people that actually fly into space

357
00:21:30,310 --> 00:21:28,309
like most everybody that works here

358
00:21:33,760 --> 00:21:30,320
doesn't get that opportunity we're

359
00:21:35,590 --> 00:21:33,770
working the crew is it's just like wow

360
00:21:37,670 --> 00:21:35,600
you know you got to pinch yourself I'm

361
00:21:40,550 --> 00:21:37,680
working with an astronaut

362
00:21:42,860 --> 00:21:40,560
99% that astronauts were very nice they

363
00:21:44,060 --> 00:21:42,870

were they were they wanted to learn what

364

00:21:45,260 --> 00:21:44,070

you were doing and then towards them

365

00:21:47,060 --> 00:21:45,270

towards the end of my career

366

00:21:48,950 --> 00:21:47,070

we were working I was working in the

367

00:21:50,690 --> 00:21:48,960

offline labs which is the experimental

368

00:21:53,360 --> 00:21:50,700

labs and everything we'd put this

369

00:21:55,700 --> 00:21:53,370

experiments together with the different

370

00:21:57,320 --> 00:21:55,710

companies or universities come through

371

00:21:59,870 --> 00:21:57,330

then and we'd bring astronauts down from

372

00:22:00,920 --> 00:21:59,880

crew quarters and we'd mask up and

373

00:22:03,100 --> 00:22:00,930

everything and we'd go through the

374

00:22:05,570 --> 00:22:03,110

procedures of how this this this

375

00:22:07,670 --> 00:22:05,580

experiment was to work and how what what

376

00:22:10,280 --> 00:22:07,680

not to do and what you do to maintain

377

00:22:13,040 --> 00:22:10,290

the safety of the crew plus make a

378

00:22:15,680 --> 00:22:13,050

success of the of the experiment itself

379

00:22:20,200 --> 00:22:15,690

and everything that was that was just

380

00:22:26,530 --> 00:22:23,510

they're just they're just playing joke

381

00:22:28,730 --> 00:22:26,540

people that did just got to go fly and

382

00:22:31,640 --> 00:22:28,740

there there's some real fond memories of

383

00:22:33,440 --> 00:22:31,650

some funny ones but I'm gonna piggy tell

384

00:22:36,320 --> 00:22:33,450

off that question so if you had the

385

00:22:37,880 --> 00:22:36,330

opportunity to go to space would you

386

00:22:44,380 --> 00:22:37,890

take it in a heartbeat in a heartbeat

387

00:22:47,180 --> 00:22:44,390

I'm 71 years old I'm ready to go

388

00:22:49,430 --> 00:22:47,190

understand now you know so let's kind of

389

00:22:51,500 --> 00:22:49,440

take it back to the VAB you know a

390

00:22:54,440 --> 00:22:51,510

little bit you spent so much time timely

391

00:22:57,290 --> 00:22:54,450

of your career right working in in the

392

00:22:59,900 --> 00:22:57,300

VAB how do you how do you see now have

393

00:23:03,230 --> 00:22:59,910

you seen a a transformation sort of

394

00:23:07,520 --> 00:23:03,240

speaking into how work is done you know

395

00:23:09,830 --> 00:23:07,530

technology changes you know the way we

396

00:23:11,180 --> 00:23:09,840

process the vehicle may even change some

397

00:23:15,380 --> 00:23:11,190

because we're going from obviously a

398

00:23:20,060 --> 00:23:15,390

shuttle to to a Saturn 5 like you know

399

00:23:22,400 --> 00:23:20,070

rock do you do you see the VAB being

400

00:23:24,020 --> 00:23:22,410

able to last throughout the the changes

401
00:23:25,610 --> 00:23:24,030
and the infrastructure that that we go

402
00:23:29,210 --> 00:23:25,620
through - oh definitely definitely

403
00:23:30,770 --> 00:23:29,220
VB it's it's it's it's like a chameleon

404
00:23:33,890 --> 00:23:30,780
it just keeps changing and changing

405
00:23:36,110 --> 00:23:33,900
changes as you need to the it went from

406
00:23:38,600 --> 00:23:36,120
from the the Apollo program into the

407
00:23:40,370 --> 00:23:38,610
shuttle program just a little bit of a

408
00:23:42,740 --> 00:23:40,380
modification a little massaging of and

409
00:23:46,360 --> 00:23:42,750
everything and it just kept right on

410
00:23:48,310 --> 00:23:46,370
working one fun fact is is that if

411
00:23:49,870 --> 00:23:48,320
if you ever get to go inside the Vivi if

412
00:23:50,950 --> 00:23:49,880
you look up on the 16th floor in your

413
00:23:53,080 --> 00:23:50,960

city opening there

414

00:23:54,519 --> 00:23:53,090

well that opening there dictated how big

415

00:23:57,190 --> 00:23:54,529

of a wingspan we were allowed on the

416

00:23:58,539 --> 00:23:57,200

orbiter they wanted some more wingspan

417

00:24:01,570 --> 00:23:58,549

because it gives a little bit more glide

418

00:24:03,100 --> 00:24:01,580

ratio but they went ok guys you only get

419

00:24:05,080 --> 00:24:03,110

something so big to slide through that

420

00:24:07,450 --> 00:24:05,090

opening so you're stuck with that wing

421

00:24:10,720 --> 00:24:07,460

there so that was that was one of the

422

00:24:13,240 --> 00:24:10,730

that building basically designed helped

423

00:24:15,130 --> 00:24:13,250

design the shuttle program there as far

424

00:24:16,299 --> 00:24:15,140

as Queens thing but once it gets in

425

00:24:18,820 --> 00:24:16,309

there you know they let it down and

426

00:24:21,220 --> 00:24:18,830

anything now the new ones coming out the

427

00:24:24,159 --> 00:24:21,230

stack rocket it's the heart of my said

428

00:24:28,210 --> 00:24:24,169

it's go in just like the Apollo program

429

00:24:31,090 --> 00:24:28,220

thing is you know but the cranes we put

430

00:24:32,889 --> 00:24:31,100

new cranes in probably about halfway

431

00:24:34,720 --> 00:24:32,899

through this shuttle program we added

432

00:24:35,950 --> 00:24:34,730

new cranes in there the old cranes are

433

00:24:37,990 --> 00:24:35,960

still a fair still workable of

434

00:24:40,570 --> 00:24:38,000

everything but but the newer cranes that

435

00:24:43,450 --> 00:24:40,580

can handle a higher of tonnage of weight

436

00:24:45,279 --> 00:24:43,460

and everything so that's uh helps yes

437

00:24:47,380 --> 00:24:45,289

the wingspan and the opening is a funny

438

00:24:49,149 --> 00:24:47,390

topic for me and funny isn't the right

439

00:24:51,399 --> 00:24:49,159

word but just interesting how decisions

440

00:24:54,039 --> 00:24:51,409

get made sometimes you think about these

441

00:24:56,169 --> 00:24:54,049

like it has to be so highly technical of

442

00:24:57,310 --> 00:24:56,179

like why we chose this exact size for

443

00:24:58,299 --> 00:24:57,320

the or and it was like no that was

444

00:24:59,950 --> 00:24:58,309

literally as big as we could make it

445

00:25:01,720 --> 00:24:59,960

like we could make it any bigger and

446

00:25:03,399 --> 00:25:01,730

that's just a practical decision making

447

00:25:03,940 --> 00:25:03,409

strategy well you couldn't do it would

448

00:25:05,049 --> 00:25:03,950

cost

449

00:25:07,899 --> 00:25:05,059

you'd have to tear the building down

450

00:25:10,750 --> 00:25:07,909

right to go in and do that another fact

451
00:25:14,490 --> 00:25:10,760
on the Phoebe - it was originally giant

452
00:25:18,430 --> 00:25:14,500
designed to be another 120 feet taller

453
00:25:20,649 --> 00:25:18,440
deep wide and and von Braun had planned

454
00:25:22,000 --> 00:25:20,659
on a bigger rocket so if you ever get a

455
00:25:23,350 --> 00:25:22,010
chance to go on top of the building

456
00:25:25,000 --> 00:25:23,360
there you'll see the stub ups up there

457
00:25:27,340 --> 00:25:25,010
that was to be able to push that

458
00:25:29,320 --> 00:25:27,350
building another 120 feet up and there

459
00:25:32,830 --> 00:25:29,330
was supposed to be two more high Bay's

460
00:25:38,470 --> 00:25:32,840
farther north towards for the the OPF

461
00:25:40,480 --> 00:25:38,480
surrett now it's and then it was

462
00:25:43,690 --> 00:25:40,490
supposed to be there just wanted it to

463
00:25:45,399 --> 00:25:43,700

be a like a sail like all the high bays

464

00:25:46,899 --> 00:25:45,409

all on one side everything says no

465

00:25:52,480 --> 00:25:46,909

because when the Hurricanes would come

466

00:25:53,500 --> 00:25:52,490

through and blow it down so it's a

467

00:25:56,330 --> 00:25:53,510

couple more questions and I think we'll

468

00:25:58,280 --> 00:25:56,340

wrap up Urton they've got it so so Greg

469

00:26:00,830 --> 00:25:58,290

you know you've met quite a few

470

00:26:03,110 --> 00:26:00,840

astronauts you've worked in one an

471

00:26:05,780 --> 00:26:03,120

iconic building you know and you can't

472

00:26:08,450 --> 00:26:05,790

find enough VAB anywhere on this planet

473

00:26:10,040 --> 00:26:08,460

and so and you've talked to us a little

474

00:26:11,900 --> 00:26:10,050

bit about how important this this

475

00:26:13,360 --> 00:26:11,910

launches to so where exactly are you

476
00:26:15,710 --> 00:26:13,370
gonna be on Wednesday for the launch

477
00:26:23,090 --> 00:26:15,720
I'll probably safely be standing my

478
00:26:25,670 --> 00:26:23,100
friends gonna be a madhouse and I only

479
00:26:28,250 --> 00:26:25,680
about 14 miles out the north gate so I

480
00:26:30,260 --> 00:26:28,260
can I can I get a real nice view of all

481
00:26:32,330 --> 00:26:30,270
the launches from my front yard so this

482
00:26:34,310 --> 00:26:32,340
one I think I'll set at home not because

483
00:26:37,970 --> 00:26:34,320
I want to unless I am invited out here

484
00:26:42,170 --> 00:26:37,980
and I will be I have to sleep in my car

485
00:26:43,540 --> 00:26:42,180
I will sleep so just one last question

486
00:26:45,980 --> 00:26:43,550
for you Greg

487
00:26:48,410 --> 00:26:45,990
you know and we appreciate you coming

488
00:26:50,720 --> 00:26:48,420

out and doing these socials a year

489

00:26:52,460 --> 00:26:50,730

you're such an icon yourself they have

490

00:26:54,650 --> 00:26:52,470

being part of all of that what would you

491

00:26:58,520 --> 00:26:54,660

say is is your favorite NASA social

492

00:26:59,750 --> 00:26:58,530

memory another tough question for you so

493

00:27:02,180 --> 00:26:59,760

you've been doing that socials for a

494

00:27:03,680 --> 00:27:02,190

decade or more now what's your favorite

495

00:27:05,380 --> 00:27:03,690

memory from a NASA so Michelle do you

496

00:27:07,670 --> 00:27:05,390

have a favorite one or a favorite moment

497

00:27:10,070 --> 00:27:07,680

they're all favorites I mean they're

498

00:27:12,140 --> 00:27:10,080

always the the people to come out here

499

00:27:13,490 --> 00:27:12,150

ours are so enthused and they're just

500

00:27:15,830 --> 00:27:13,500

they're just like little sponges you

501
00:27:17,870 --> 00:27:15,840
know everything that you can possibly

502
00:27:20,420 --> 00:27:17,880
tell them and information they just they

503
00:27:23,480 --> 00:27:20,430
just they just suck it up and everything

504
00:27:26,630 --> 00:27:23,490
so that's and you know that honestly

505
00:27:29,090 --> 00:27:26,640
speaks to how amazing the things that we

506
00:27:31,370 --> 00:27:29,100
do here really really is I mean adult

507
00:27:34,640 --> 00:27:31,380
children I mean people of all ages from

508
00:27:36,890 --> 00:27:34,650
all over the world come here just to see

509
00:27:39,380 --> 00:27:36,900
these amazing things that were able to

510
00:27:41,870 --> 00:27:39,390
do so very good and that's gonna do it

511
00:27:43,580 --> 00:27:41,880
for us for this show so Greg appreciate

512
00:27:45,710 --> 00:27:43,590
you as always for your support of the

513
00:27:46,690 --> 00:27:45,720

NASA socials at large and especially for

514

00:27:48,620 --> 00:27:46,700

joining us today

515

00:27:50,480 --> 00:27:48,630

Yves thanks for riding along with me

516

00:27:52,280 --> 00:27:50,490

absolutely always always such a pleasure

517

00:27:55,160 --> 00:27:52,290

must say one thing yeah I was always

518

00:28:00,410 --> 00:27:55,170

told that my social media people get off

519

00:28:01,520 --> 00:28:00,420

my bus if I did sit they would they

520

00:28:05,210 --> 00:28:01,530

wouldn't sit they just sit there and

521

00:28:06,750 --> 00:28:05,220

look at me I would get off my bus no

522

00:28:08,280 --> 00:28:06,760

more fitting way to end the program

523

00:28:10,710 --> 00:28:08,290

next up is gonna be the launch complex

524

00:28:13,440 --> 00:28:10,720

39b that is the site where we will

525

00:28:14,970 --> 00:28:13,450

launch humans back to the moon coming up

526

00:28:17,250 --> 00:28:14,980

very very shortly in just a few years

527

00:28:18,570 --> 00:28:17,260

that's gonna do it for us for now and we

528

00:28:20,909 --> 00:28:18,580

will see you at 11 a.m. Eastern Time